

templst SEQUENCE LISTING <110> Nicholette, Charles A. <120> THERAPEUTIC COMPOUNDS FOR OVARIAN CANCER <130> GZ 2104.00 <140> 09/931.969 <141> 2001-08-17 <150> 60/226,243 <151> 2000-08-17 <160> 12 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 3801 <212> DNA <213> Homo sapiens <400> 1 atgaaagtga ccgtgtgctt cggacggacc cgggtggtcg tgccgtgcgg ggacggccac 60 atgaaagttt tcagcctcat ccagcaggcg gtgacccgct accggaaggc catcgccaag 120 gatccaaact actggataca ggtgcatcgc ttggaacatg gagatggagg aatactagac 180 čttgatgaca ttcťťtgtga ťgtágcagác gaťáaagacá gačtggťagč agtgtttgat 240 gagčaggatc cacatcacgg aggtgatggc accagtgcca gttccacggg tacccagagc 300 ccagagatat ttggtagtga gcttggcacc aacaatgtct cagcctttca gccttaccaa 360 gcaacaagtg aaattgaggt cacaccttca gtccttcgag caaatatgcc tcttcatgtt 420 čgacgcagta gtgacccagc tctaattggc čtctccačtť ctgtcagťga tagtaatťtt 480 tcctctgaag agccttcaag gaaaaatccc acacgctggt caacaacagc tggcttcctc 540 aagcagaaca ctgctgggag tcctaaaacc tgcgacagga aggatgagga tgggacagaa 600 gaggataaca gtcgtgttga acctgttgga catgctgaca cgggtttgga gcatataccc 660 aacttttctc tggatgatat ggtaaagctc gtagaagtcc ccaacgatgg agggcctctg 720 ggaatccatg tagtgccttt cagtgctcga ggcggcagaa ccctggggtt attagtaaaa 780 cgattggaga aaggtggaaa agctgaacat gaaaacttt ttcgtgagaa tgattgcatt 840 gicaggatia atgatggcga ccttcgaaat agaagatttg aacaagcaca acataigttt 900 cgccaagcca tgcgtacacc catcatttgg ttccatgtgg ttcctgcagc aaataaagag 960 cagtatgaac aactatccca aagtgagaag aacaattact attcaagccg ttttagccct 1020 gacagccagt atattgacaa caggagtgtg aacaattact attcaagccg ttttagcctt 1020 gacagccagt atattgacaa caggagtgtg aacaagtgcag ggcttcacac ggtgcagaga 1080 gcaccccgac tgaaccacc gcctgagcag atagactctc actcaagact acctcatagc 1140 gcacacccct cgggaaaacc accatccgct ccagcctcgg cacctcagaa tgtatttagt 1200 acgactgtaa gcagtggtta taacaccaaa aaaataggca agaggcttaa tatccagctt 1260 aagaaaaggta cagaaggtt gggattcagc atcacttcca gagatgtaac aataggtggc 1320 tcagctccaa gagacgacca tatagaggta aatagagaa aataccca 1440 cttaaggcag gagacagact tatagaggta aatggagtag atttagtggg caaatcccaa 1440 gaggaagttő tttcgctgtt gagaagcacc aagatggaag gaactgtgag ccttctggtc 1500 tticgccagg aagacgcctt ccacccaagg gaactgaaag cagaagatga ggatatigtt 1560 cttacactg atggcaccag ggaattctg acattgaag tcccacttaa tgattcagga 1620 tctgcaggcc ttggtgtcag tgtcaaaggt aaccggtcaa aagagaacca cgcagatttg 1680 ggaatctttg tcaagtccat tattaatgga ggagcagcat ctaaaggatgg aaggcttcgg 1740 gtgaatgatc aactgatagc agtaaatgga gaatccctgt tgggcaagac aaaccaagat 1800 gccatggaaa ccctaagaag gtctatgtct actgaaggca ataaacgagg aatgatccag 1860 cttattgttg caaggagaat aagcaagtgc aatgagctga agtcacctgg gagcccccct 1920 ggacctgagc tgcccattga aacagcgttg gatgatagag aacgaagaat ttcccattcc 1980 ctctacagtg gagtagagg gcttgatgaa tccccaagca gaaatgctgc cctcaagag 2040

tcccatgatg atgiggggtt tgtgacggca gatgctggta ctigggccaa ggctgcaaic 2220 Page 1

ctctacagtg ggattgaggg gcttgatgaa tccccaagca gaaatgctgc cctcagtagg 2040 ataatgggta aataccagct gtcccctaca gtgaatatgc cccaagatga cactgtcatt 2100 atagaagatg acaggttgcc agtgcttcct ccacatctct ctgaccagtc ctcttccagc 2160

templst

```
agtgattcag ccgactgctc tttgagtcca gatgttgatc cagttcttgc ttttcaacga 2280
gaaggatttg gacgtcagat agctgacgag actaaactca atacagtgga tgaccagaaa 2340
gcaggttctc ccagcagaga tgtgggtcct tccctgggtc tgaagaagtc aagctcgttg 2400
gagagtctgc agaccgcagt tgccgaggtg actttgaatg gggatattcc tttccatcgt 2460
ccacggccgc ggataatcag aggcagggga tgcaatgaga gcttcagagc tgccatcgac 2520
aaatcttatg ataaacccgc ggtagatgat gatgatgagg gcatggagac cttggaagaa 2580
gacacagaag aaagttcaag atcagggaga gagtctgtat ccacagccag tgatcagcct
tcccactctc tggagagaca aatgaatgga aaccaagaga aaggtgataa gactgataga
                                                                              2640
                                                                              2700
                                                                              2760
aaaaaggata aaactggaaa agaaaagaag aaagatagag ataaggagaa ggataaaatg
aaagccaaga agggaatgct gaagggcttg ggagacatgt tcaggttigg caaacatcga 2820
aaagatgaca agattgagaa aacgggtaaa ataaaaatac aggaatcctt tacatcagaa 2880
gaggagagga tacgaatgaa gcaggagcag gagaggattc aagccaaaac tcgagaattt 2940
agggaacgac aagctcgaga gcgtgactat gctgaaattc aagattttca tcggacattt 3000
ggctgtgatg atgagttaat gtatggggga gtttcttctt atgaaggttc catggctctc 3060
aacgctagac ctcagagccc acgagaaggg catatgatgg atgctttgta tgcccaagtc 3120
aagaagccgc ggaattccaa accctcacct gtagacagta acagatcaac tcctagcaat
                                                                              3180
catgatcgga tacagcgtct gaggcaagaa tttcagcaag caaagcaaga tgaagatgta
gaagatcgtc ggcggaccta tagttttgag caaccctggc cgaacgcacg gccggcgacg cagagcgggc gacactcggt gtccgtggag gtgcagatgc agcggcagcg gcaggaggag cgcgagagct cccagcaggc ccagcgccag tacagctctc tgcctcggca aagcaggaaa
                                                                              3300
                                                                              3360
                                                                              3420
aatgccagct cggtctccca ggactcttgg gagcagaact actcccctgg ggaaggcttc cagagtgcca aagagaaccc caggtactcc agctaccaag gctccaggaa cggctacctg
ggaggacatg gcttcaacgc cagggtcatg ctggaaactc aggagctcct tcgccaggaa
cagaggegga aggageagea gatgaagaag cageeteett eegaggggee cageaactat
                                                                              3660
                                                                              3720
gactogtata agaaagtoca ggaccocagt tacgococto ccaaggggoo ottooggoaa
                                                                              3780
gatgtgcccc cctccccttc tcaggttgcg aggctgaaca gacttcagac tcctgagaaa
                                                                              3801
gggaggccct tctattcctg a
```

<210> 2 <211> 1266 <212> PRT

<213> Homo sapiens

<400> 2 Met Lys Val Thr Val Cys Phe Gly Arg Thr Arg Val Val Pro Cys 10 Gly Asp Gly His Met Lys Val Phe Ser Leu Ile Gln Gln Ala Val Thr 20 25 30 Arg Tyr Arg Lys Ala Ile Ala Lys Asp Pro Asn Tyr Trp Ile Gln Val His Arg Leu Glu His Gly Asp Gly Gly Ile Leu Asp Leu Asp Asp Ile 50 55 60 Leu Cys Asp Val Ala Asp Asp Lys Asp Arg Leu Val Ala Val Phe Asp 65 70 75 80 Glu Gln Asp Pro His His Gly Gly Asp Gly Thr Ser Ala Ser Ser Thr 85 90 95 Gly Thr Gln Ser Pro Glu Ile Phe Gly Ser Glu Leu Gly Thr Asn Asn 100 105 110 Ser Ala Phe Gln Pro Tyr Gln Ala Thr Ser Glu Ile Glu Val Thr 120 115 Ser Val Leu Arg Ala Aşn Met Pro Leu His Val Arg Arg Ser Ser 135 Asp Pro Ala Leu Ile Gly Leu Ser Thr Ser Val Ser Asp Ser Asn Phe 155 Ser Glu Glu Pro Ser Arg Lys Asn Pro Thr Arg Trp Ser Thr Thr 170 Ala Gly Phe Leu Lys Gln Asn Thr Ala Gly Ser Pro Lys Thr Cys Asp 185 190 Lys Asp Glu Asp Gly Thr Glu Glu Asp Asn Ser Arg Val Glu Pro 195 200 205 Gly His Ala Asp Thr Gly Leu Glu His Ile Pro Asn Phe Ser Leu 220 Asp Asp Met Val Lys Leu Val Glu Val Pro Asn Asp Gly Gly Pro Leu

templst 235 Gly Ile His Val Val Pro Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly 245 250 Leu Leu Val Lys Arg Leu Glu Lys Gly Gly Lys Ala Glu His Glu Asn 260 265 270 Leu Phe Arg Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Leu 275 280 285 Arg Asn Arg Arg Phe Glu Gln Ala Gln His Met Phe Arg Gln Ala Met 290 295 300 Arg Thr Pro Ile Ile Trp Phe His Val Val Pro Ala Ala Asn Lys Glu 305 310 315 320 Gln Tyr Glu Gln Leu Ser Gln Ser Glu Lys Asn Asn Tyr Tyr Ser Ser 330 325 Arg Phe Ser Pro Asp Ser Gln Tyr Ile Asp Asn Arg Ser Val Asn Ser 340 345 350 Ala Gly Leu His Thr Val Gln Arg Ala Pro Arg Leu Asn His Pro Pro 355 360 365 Glu Gln Ile Asp Ser His Ser Arg Leu Pro His Ser Ala His Pro Ser 370 375 380 Gly Lys Pro Pro Ser Ala Pro Ala Ser Ala Pro Gln Asn Val Phe Ser 390 395 Thr Thr Val Ser Ser Gly Tyr Asn Thr Lys Lys Ile Gly Lys Arg Leu 410 405 Asn Ile Gln Leu Lys Lys Gly Thr Glu Gly Leu Gly Phe Ser Ile Thr 425 420 430 Ser Arg Asp Val Thr Ile Gly Gly Ser Ala Pro Ile Tyr Val Lys Asn 435 440 445 Ile Leu Pro Arg Gly Ala Ala Ile Gln Asp Gly Arg Leu Lys Ala Gly 450 455 460 Asp Arg Leu Ile Glu Val Asn Gly Val Asp Leu Val Gly Lys Ser Gln 470 475 Glu Glu Val Val Ser Leu Leu Arg Ser Thr Lys Met Glu Gly Thr Val 485 490 Ser Leu Leu Val Phe Arg Gln Glu Asp Ala Phe His Pro Arg Glu Leu 51Ō 505 500 Lys Ala Glu Asp Glu Asp Ile Val Leu Thr Pro Asp Gly Thr Arg Glu 515 520 525 Phe Leu Thr Phe Glu Val Pro Leu Asn Asp Ser Gly Ser Ala Gly Leu 530 540 535 Gly Val Ser Val Lys Gly Asn Arg Ser Lys Glu Asn His Ala Asp Leu 550 555 Gly Ile Phe Val Lys Ser Ile Ile Asn Gly Gly Ala Ala Ser Lys Asp
565 570 575 Gly Arg Leu Arg Val Asn Asp Gln Leu Ile Ala Val Asn Gly Glu Ser 580 585 590 Leu Leu Gly Lys Thr Asn Gln Asp Ala Met Glu Thr Leu Arg Arg Ser 595 600 605 Met Ser Thr Glu Gly Asn Lys Arg Gly Met Ile Gln Leu Ile Val Ala 610 620 Arg Arg Ile Ser Lys Cys Asn Glu Leu Lys Ser Pro Gly Ser Pro 625 630 635 640 Gly Pro Glu Leu Pro Ile Glu Thr Ala Leu Asp Asp Arg Glu Arg Arg 645 650 Ile Ser His Ser Leu Tyr Ser Gly Ile Glu Gly Leu Asp Glu Ser Pro 660 665 670 Ser Arg Asn Ala Ala Leu Ser Arg Ile Met Gly Lys Tyr Gln Leu Ser 675 680 685 68Ō Pro Thr Val Asn Met Pro Gln Asp Asp Thr Val Ile Ile Glu Asp Asp 695 700 Arg Leu Pro Val Leu Pro Pro His Leu Ser Asp Gln Ser Ser Ser Ser 715 710 Ser His Asp Asp Val Gly Phe Val Thr Ala Asp Ala Gly Thr Trp Ala 725 730 Page 3

templst Lys Ala Ala Ile Ser Asp Ser Ala Asp Cys Ser Leu Ser Pro Asp Val Pro Val Leu Ala Phe Gln Arg Glu Gly Phe Gly Arg Gln Ile Ala 755 760 765 Asp Glu Thr Lys Leu Asn Thr Val Asp Asp Gln Lys Ala Gly Ser Pro Ser Arg Asp Val Gly Pro Ser Leu Gly Leu Lys Lys Ser Ser Ser Leu 785 790 795 800 Glu Ser Leu Gln Thr Ala Val Ala Glu Val Thr Leu Asn Gly Asp Ile 810 815 Pro Phe His Arg Pro Arg Pro Arg Ile Ile Arg Gly Arg Gly Cys Asn Glu Ser Phe Arg Ala Ala Ile Asp Lys Ser Tyr Asp Lys Pro Ala Val Asp Asp Asp Glu Gly Met Glu Thr Leu Glu Glu Asp Thr Glu Glu Ser Ser Arg Ser Gly Arg Glu Ser Val Ser Thr Ala Ser Asp Gln Pro Ser His Ser Leu Glu Arg Gln Met Asn Gly Asn Gln Glu Lys Gly Asp Lys Thr Asp Arg Lys Lys Asp Lys Thr Gly Lys Glu Lys Lys Lys Asp Arg Asp Lys Glu Lys Asp Lys Met Lys Ala Lys Lys Gly Met Leu Lys Gly Leu Gly Asp Met Phe Arg Phe Gly Lys His Arg Lys Asp Asp Lys 930 935 940 Ile Glu Lys Thr Gly Lys Ile Lys Ile Gln Glu Ser Phe Thr Ser Glu 945 950 955 960 Glu Glu Arg Ile Arg Met Lys Gln Glu Gln Glu Arg Ile Gln Ala Lys Thr Arg Glu Phe Arg Glu Arg Gln Ala Arg Glu Arg Asp Tyr Ala Glu Ile Gln Asp Phe His Arg Thr Phe Gly Cys Asp Asp Glu Leu Met Tyr Gly Gly Val Ser Ser Tyr Glu Gly Ser Met Ala Leu Asn Ala Arg Pro Gln Ser Pro Arg Glu Gly His Met Met Asp Ala Leu Tyr Ala Gln Val Lys Lys Pro Arg Asn Ser Lys Pro Ser Pro Val Asp Ser Asn Arg_Ser Thr Pro Ser Asn His Asp Arg Ile Gln Arg Leu Arg Gln Glu Phe Gln Gln Ala Lys Gln Asp Glu Asp Val Glu Asp Arg Arg Thr Tyr Ser 1075 1080 _ 1085 _ Phe Glu Gln Pro Trp Pro Asn Ala Arg Pro Ala Thr Gln Ser Gly Arg His Ser Val Ser Val Glu Val Gln Met Gln Arg Gln Arg Gln Glu Glu 1105 1110 1115 112 Arg Glu Ser Ser Gln Gln Ala Gln Arg Gln Tyr Ser Ser Leu Pro Arg Gln Ser Arg Lys Asn Ala Ser Ser Val Ser Gln Asp Ser Trp Glu Gln Asn Tyr Ser Pro Gly Glu Gly Phe Gln Ser Ala Lys Glu Asn Pro Arg Tyr Ser Ser Tyr Gln Gly Ser Arg Asn Gly Tyr Leu Gly Gly His Gly Phe Asn Ala Arg Val Met Leu Glu Thr Gln Glu Leu Leu Arg Gln Glu Gln Arg Arg Lys Glu_Gln Gln Met Lys Lys Gln Pro Pro Ser Glu_Gly Ser Asn Tyr Asp Ser Tyr Lys Lys Val Gln Asp Pro Ser Tyr Ala 1220 1225 1230 Pro Pro Lys Gly Pro Phe Arg Gln Asp Val Pro Pro Ser Pro Ser Gln

```
templst
                                                         1245
         1235
                                1240
Val Ala Arg Leu Asn Arg Leu Gln Thr Pro Glu Lys Gly Arg Pro Phe
                            1255
   1250
Tyr Ser
1265
<210> 3
<211> 9
<212> PRT
<213> Homo sapiens
<400> 3
Pro Leu Thr Asp Glu Arg Met Pro Val
<210> 4
<211> 27
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 6, 9, 18, 24, 27
<223> n = A,T,C or G
<400> 4
                                                                              27
ttyctnacng aygarcgnat gccngtn
<210> 5
<211> 9
<212> PRT
<213> Homo sapiens
<400> 5
Phe Leu Thr Asp Glu Ala Arg Ser Val
                    5
<210> 6
<211> 27
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> 6, 9, 18, 21, 24, 27
<223> n = A,T,C or G
                                                                              27
ttyctnacng aygargcnmg nwsngtn
<210> 7
<211> 9
<212> PRT
<213> Homo sapiens
Phe Leu Asp Asp Glu Ile Met Arg Val
```

```
templst
  <210> 8
  <211> 27
  <212> DNA
   <213> Homo sapiens
  <220>
  <221> misc_feature
<222> 6, 24, 27
<223> n = A,T,C or G
   <400> 8
                                                                                          27
  ttyctngayg aygarathat gmgngtn
   <210> 9
   <211> 9
   <212> PRT
   <213> Homo sapiens
   <400> 9
  Phe Leu Asp Asp Glu Ile Thr Phe Val
  <210> 10
<211> 27
   <212> DNA
   <213> Homo sapiens
   <220>
  <221> misc_feature
<222> 6, 21, 27
<223> n = A,T,C or G
  <400> 10
                                                                                          27
. ttyctngayg aygarathac nttygtn
  <210> 11
<211> 9
   <212> PRT
   <213> Homo sapiens
  Ile Ile Glu Asp Asp Arg Leu Pro Val
  <210> 12
<211> 27
   <212> DNA
   <213> Homo sapiens
   <220>
  <221> misc_feature
<222> 18, 21, 24, 27
<223> n = A,T,C or G
   <400> 12
                                                                                           27
   athathgarg aygaycgnyt nccngtn
```